



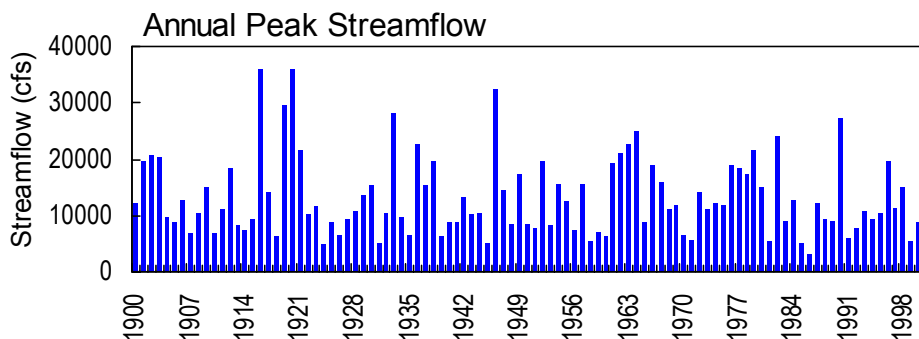
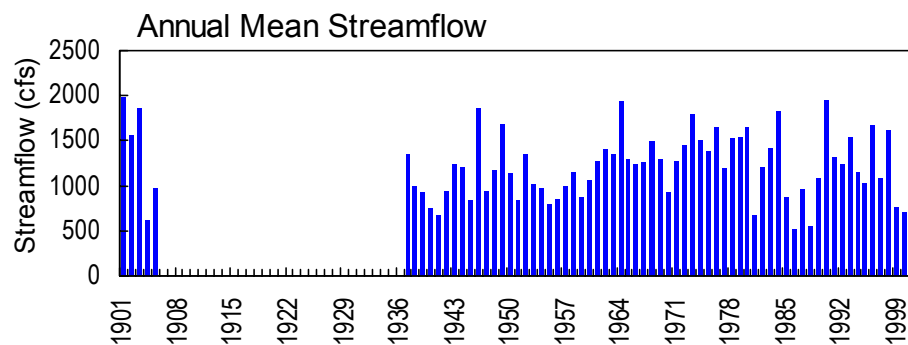
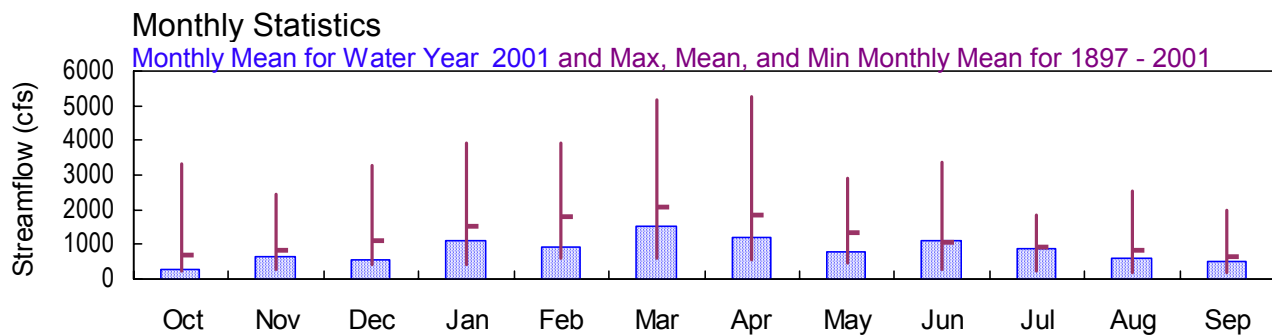
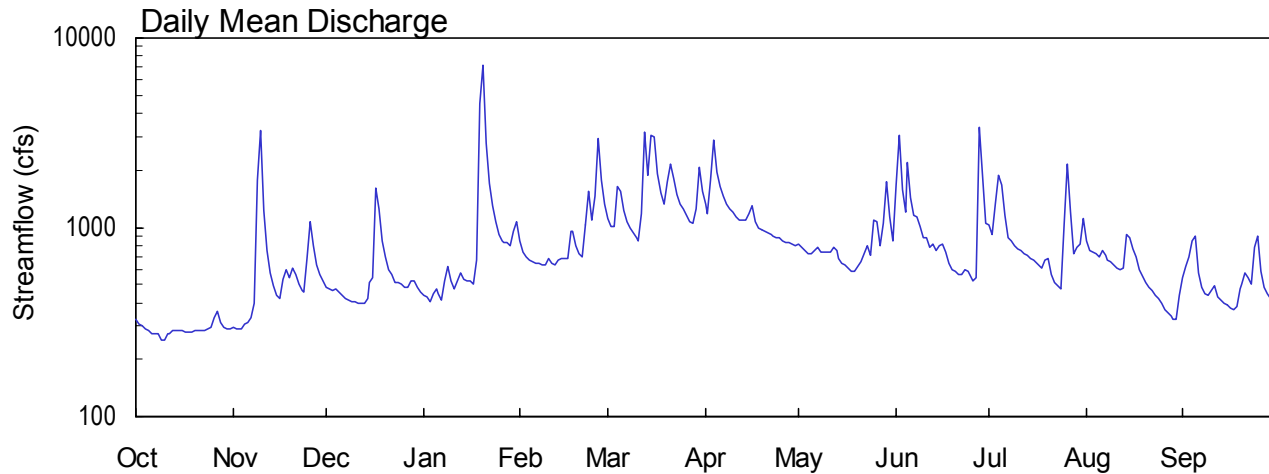
## MOBILE RIVER BASIN

2001 Water Year

02392000

ETOWAH RIVER AT CANTON, GA

Latitude: 34° 14' 23" Longitude: 84° 29' 47" Hydrologic Unit Code: 03150104 Cherokee County  
Drainage Area: 613 mi<sup>2</sup> Datum: 844.6 feet Period of Record: 1897 - 2001



## MOBILE RIVER BASIN

2001 Water Year

### 02392000 ETOWAH RIVER AT CANTON, GA

**LOCATION.**--Lat 34°14'23", long 84°29'47", Cherokee County, Hydrologic Unit 03150104, on left bank 100 feet downstream from bridge on GA 5 Spur and 140 at Canton, 0.8 miles upstream from Canton Creek, and 1.8 miles downstream from Hickory Log Creek.

**DRAINAGE AREA.**--613 mi<sup>2</sup>.

**COOPERATION.**—U.S. Army Corps of Engineers, Mobile District.

### WATER-DISCHARGE RECORDS

**PERIOD OF RECORD.**--March 1892 to September 1905 (prior to October 1896, gage heights only), October 1936 to current year. Monthly discharge only for January to March 1896, published in WSP 1304. Gage heights collected at same site since 1892 are contained in reports of National Weather Service.

**REVISED RECORDS.**--WSP 1906: 1946(M). WDR GA-80-1: Drainage area.

**GAGE.**—Satellite telemetry with a water-stage recorder. Datum of gage is 844.55 feet above sea level. From March 1892 to December 1905, a non-recording gage was located at site 100 feet upstream at datum 2.0 feet higher. From March 16, 1937 to January 17, 1939, a non-recording gage was located at site 100 feet upstream at present datum. A water-stage recorder at Allatoona Reservoir is used as an auxiliary gage for this station during periods of backwater caused by Allatoona Reservoir.

**REMARKS.**--Records fair.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 6,500 ft<sup>3</sup>/s and maximum (\*):

DATE	TIME	DISCHARGE (ft <sup>3</sup> /s)	GAGE HEIGHT (ft)
Jan. 20	0600	9,270*	14.05*
No other peaks greater than base discharge			

**MOBILE RIVER BASIN  
2001 Water Year**

**02392000 ETOWAH RIVER AT CANTON, GA—continued.**

**WATER-STAGE RECORDS**

**PERIOD OF RECORD.**--March 1892 to September 1905 (prior to October 1896, gage heights only), October 1936 to current year. Monthly discharge only for January to March 1896, published in WSP 1304. Gage heights collected at same site since 1892 are contained in reports of National Weather Service.

**REVISED RECORDS.**--WSP 1906: 1946(M). WDR GA-80-1: Drainage area.

**GAGE.**--Satellite telemetry with a water-stage recorder. Datum of gage is 844.55 feet above sea level. From March 1892 to December 1905, a non-recording gage was located at site 100 feet upstream at datum 2.0 feet higher. From March 16, 1937 to January 17, 1939, a non-recording gage was located at site 100 feet upstream at present datum. A water-stage recorder at Allatoona Reservoir is used as an auxiliary gage for this station during periods of backwater caused by Allatoona Reservoir.

**REMARKS.**--Records fair.

**EXTREMES FOR CURRENT YEAR.**--Maximum gage-height recorded, 14.05 feet, January 20; minimum gage-height recorded, 1.41 feet, October 9-10, but may have been lower during periods of estimated discharge.

**PRECIPITATION RECORDS**

**PERIOD OF RECORD.**--April 20, 2001 to September 30, 2001.

**GAGE.**--Tipping-bucket raingage.

**REMARKS.**--Records good.

STATION NUMBER 02392000 ETOWAH RIVER AT CANTON, GA STREAM SOURCE AGENCY USGS  
 LATITUDE 341423 LONGITUDE 0842947 DRAINAGE AREA 613.00 DATUM 844.55 STATE 13 COUNTY 057

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	327	295	487	442	e850	1120	1320	e820	1660	1020	851	e540
2	310	290	469	427	e740	1010	1190	e790	3050	e910	756	e620
3	300	291	466	407	e700	1010	1770	e750	1590	e1320	742	e700
4	289	294	477	445	e670	1640	2900	e720	1210	1880	723	e840
5	283	306	452	476	e660	1560	1970	e720	2190	1670	701	e890
6	277	314	436	449	e640	1230	1630	e750	1420	1160	753	e580
7	277	336	422	417	e640	1070	1450	e780	1150	e880	707	e480
8	274	399	414	520	e630	991	1330	e740	1130	e840	677	e450
9	256	1770	408	619	e630	934	1250	e740	1010	e800	653	e440
10	254	3240	404	520	e680	889	1200	e740	885	e775	637	e460
11	273	1230	397	477	e640	843	1140	742	e880	e750	609	e490
12	277	759	396	526	e635	1180	1100	782	e790	e730	599	e430
13	285	572	400	579	e670	3150	1090	751	815	e710	606	e410
14	285	489	419	534	e680	1880	1090	690	749	e690	924	e400
15	285	439	512	520	e690	3030	1170	651	804	e670	874	e390
16	284	421	545	522	691	3000	1300	628	815	e650	773	e375
17	282	527	1600	506	953	1930	1080	607	736	e625	693	e365
18	281	594	1240	669	955	1510	1000	584	642	e610	593	e380
19	282	538	845	4490	801	1320	970	e590	600	e670	e550	e475
20	285	615	699	7190	730	1750	949	e620	588	e680	e510	505
21	285	559	597	2780	693	2150	934	660	564	e560	e480	577
22	285	500	559	1720	1020	1820	916	727	567	e510	e460	541
23	288	465	509	1310	1540	1500	895	807	598	e490	e440	501
24	289	451	511	1070	1100	1330	881	716	582	469	e425	787
25	297	679	502	922	1450	1250	878	1100	538	1030	e400	903
26	333	1070	485	843	2920	1150	856	1070	523	2140	e370	589
27	361	799	478	837	1770	1080	838	793	543	e1200	e355	483
28	315	635	519	825	1320	1040	829	1040	3350	e720	e340	446
29	298	559	517	800	---	1250	809	1730	1890	e790	e330	424
30	292	522	485	957	---	2060	795	1140	1040	e820	e325	404
31	292	---	452	1080	---	1560	---	842	---	e1120	e440	---
TOTAL	9001	19958	17102	33879	26098	47237	35530	24820	32909	27889	18296	15875
MEAN	290	665	552	1093	932	1524	1184	801	1097	900	590	529
MAX	361	3240	1600	7190	2920	3150	2900	1730	3350	2140	924	903
MIN	254	290	396	407	630	843	795	584	523	469	325	365
CFSM	.47	1.09	.90	1.78	1.52	2.49	1.93	1.31	1.79	1.47	.96	.86
IN.	.55	1.21	1.04	2.06	1.58	2.87	2.16	1.51	2.00	1.69	1.11	.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1897 - 2001, BY WATER YEAR (WY)

MEAN	705	810	1106	1538	1810	2083	1858	1361	1083	932	817	630
MAX	3302	2461	3258	3939	3933	5163	5262	2889	3391	1853	2534	1964
(WY)	1990	1978	1962	1946	1903	1980	1964	1973	1900	1900	1901	1898
MIN	214	294	415	425	612	620	542	457	280	212	198	201
(WY)	1955	1982	1956	1956	1941	1988	1986	1941	1988	1986	1986	1999

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1897 - 2001

ANNUAL TOTAL	249217	308594	
ANNUAL MEAN	681	845	1225
HIGHEST ANNUAL MEAN			1979
LOWEST ANNUAL MEAN			510
HIGHEST DAILY MEAN	7540	Apr 4	22700
LOWEST DAILY MEAN	163	Sep 19	122
ANNUAL SEVEN-DAY MINIMUM	173	Sep 14	270
MAXIMUM PEAK FLOW			9270
MAXIMUM PEAK STAGE		14.05	Jan 20
INSTANTANEOUS LOW FLOW			120
ANNUAL RUNOFF (CFSM)	1.11	1.38	2.00
ANNUAL RUNOFF (INCHES)	15.12	18.73	27.15
10 PERCENT EXCEEDS	1140	1520	2150
50 PERCENT EXCEEDS	521	680	920
90 PERCENT EXCEEDS	232	329	415

STATISTICS COMPUTED BY: gabailey

DATE: 03/28/2002 AT: 15:46:12

e Estimated

STATION NUMBER 02392000 ETOWAH RIVER AT CANTON, GA STREAM SOURCE AGENCY USGS  
 LATITUDE 341423 LONGITUDE 0842947 DRAINAGE AREA 613.00 DATUM 844.55 STATE 13 COUNTY 057

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.64	1.55	2.05	1.94	---	3.32	3.68	---	4.23	3.07	2.73	---
2	1.59	1.54	2.01	1.90	---	3.11	3.44	---	6.55	---	2.54	---
3	1.57	1.54	2.00	1.85	---	3.12	4.43	---	4.16	---	2.51	---
4	1.53	1.55	2.03	1.95	---	4.23	6.34	---	3.48	4.64	2.47	---
5	1.51	1.58	1.96	2.03	---	4.10	4.81	---	5.16	4.30	2.43	---
6	1.49	1.61	1.92	1.96	---	3.52	4.23	---	3.86	3.34	2.53	---
7	1.50	1.66	1.89	1.88	---	3.24	3.90	---	3.37	---	2.44	---
8	1.49	1.83	1.87	2.13	---	3.09	3.70	---	3.34	---	2.37	---
9	1.43	4.34	1.85	2.37	---	2.98	3.56	---	3.12	---	2.32	---
10	1.42	6.82	1.84	2.14	---	2.90	3.46	---	2.89	---	2.29	---
11	1.48	3.52	1.82	2.03	---	2.81	3.36	2.62	---	---	2.23	---
12	1.50	2.65	1.82	2.15	---	3.40	3.28	2.69	---	---	2.20	---
13	1.52	2.26	1.83	2.28	---	6.74	3.27	2.64	2.76	---	2.22	---
14	1.52	2.06	1.88	2.17	---	4.65	3.27	2.52	2.63	---	2.86	---
15	1.52	1.93	2.12	2.14	---	6.48	3.41	2.44	2.74	---	2.77	---
16	1.52	1.89	2.20	2.14	2.52	6.48	3.64	2.39	2.76	---	2.57	---
17	1.51	2.15	4.15	2.10	3.01	4.73	3.26	2.35	2.61	---	2.41	---
18	1.51	2.32	3.54	2.44	3.02	4.02	3.10	2.30	2.42	---	2.19	---
19	1.51	2.18	2.81	8.20	2.73	3.68	3.05	---	2.33	---	---	---
20	1.52	2.36	2.53	11.70	2.60	4.43	3.01	---	2.31	---	---	1.96
21	1.52	2.24	2.33	6.13	2.52	5.11	2.98	2.46	2.25	---	---	2.15
22	1.52	2.09	2.24	4.37	3.13	4.55	2.95	2.59	2.26	---	---	2.06
23	1.53	2.00	2.11	3.66	4.06	4.01	2.91	2.74	2.33	---	---	1.96
24	1.53	1.96	2.12	3.24	3.28	3.70	2.88	2.57	2.29	1.87	---	2.58
25	1.55	2.48	2.09	2.96	3.88	3.55	2.88	3.28	2.18	3.01	---	2.82
26	1.66	3.24	2.05	2.81	6.36	3.38	2.83	3.23	2.15	5.07	---	2.17
27	1.73	2.73	2.03	2.80	4.46	3.25	2.80	2.72	2.20	---	---	1.91
28	1.61	2.41	2.13	2.78	3.68	3.18	2.78	3.18	6.81	---	---	1.81
29	1.56	2.23	2.13	2.73	---	3.55	2.75	4.40	4.65	---	---	1.75
30	1.54	2.14	2.05	3.02	---	4.96	2.72	3.36	3.10	---	---	1.70
31	1.54	---	1.97	3.25	---	4.10	---	2.81	---	---	---	---
MEAN	1.53	2.36	2.17	3.07	---	4.01	3.42	---	---	---	---	---
MAX	1.73	6.82	4.15	11.70	---	6.74	6.34	---	---	---	---	---
MIN	1.42	1.54	1.82	1.85	---	2.81	2.72	---	---	---	---	---

STATION NUMBER 02392000 ETOWAH RIVER AT CANTON, GA STREAM SOURCE AGENCY USGS  
 LATITUDE 341423 LONGITUDE 0842947 DRAINAGE AREA 613.00 DATUM 844.55 STATE 13 COUNTY 057

## PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

## DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.00	---	.00	.00	.23
2	---	---	---	---	---	---	---	.00	---	.00	.00	.21
3	---	---	---	---	---	---	---	.00	---	.30	.00	.45
4	---	---	---	---	---	---	---	.00	---	.89	.02	.05
5	---	---	---	---	---	---	---	.00	---	.03	.28	.00
6	---	---	---	---	---	---	---	.00	---	.00	.00	.00
7	---	---	---	---	---	---	---	.00	---	.00	.00	.00
8	---	---	---	---	---	---	---	.00	---	.00	.00	.00
9	---	---	---	---	---	---	---	.00	---	.54	.00	.00
10	---	---	---	---	---	---	---	.00	---	.00	.00	.00
11	---	---	---	---	---	---	---	.14	---	.00	.53	.00
12	---	---	---	---	---	---	---	.00	---	.00	.24	.00
13	---	---	---	---	---	---	---	.00	---	.00	.26	.00
14	---	---	---	---	---	---	---	.00	.00	.00	.00	.08
15	---	---	---	---	---	---	---	.00	.42	.00	.00	.00
16	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
17	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
18	---	---	---	---	---	---	---	.00	.00	---	.00	.00
19	---	---	---	---	---	---	---	.49	.00	---	.00	.15
20	---	---	---	---	---	---	---	.12	.00	---	.00	.02
21	---	---	---	---	---	---	.00	.01	.00	---	.00	.00
22	---	---	---	---	---	---	.00	.51	.57	---	.00	.00
23	---	---	---	---	---	---	.00	.02	.00	---	.00	.56
24	---	---	---	---	---	---	.02	.15	.00	.00	.00	.21
25	---	---	---	---	---	---	.00	---	.01	2.10	.00	.00
26	---	---	---	---	---	---	.00	---	.00	.01	.00	.00
27	---	---	---	---	---	---	.00	---	.65	---	.66	.00
28	---	---	---	---	---	---	.00	---	2.06	---	.00	.00
29	---	---	---	---	---	---	.00	---	.02	---	.01	.00
30	---	---	---	---	---	---	.13	---	.08	---	.02	.00
31	---	---	---	---	---	---	---	---	---	.00	1.07	---
TOTAL	---	---	---	---	---	---	---	---	---	---	3.09	1.96